

IN THE CLAIMS**BEST AVAILABLE COPY**

1. (Currently amended) A method for compressing ~~[[the]]~~ a representation of a sequence of points in a space, the method comprising:

dividing ~~[[a]]~~ the sequence of points into segments of successive points;

determining a compression size for each of the segments, wherein the compression size varies based on a number of bits needed to represent relative distances between the points of each segment;

compressing each of the segments into the compression size for each segment;

and

combining the compressed segments into a data stream.

2. (Currently amended) The method of claim 1, wherein the step of dividing comprises

dividing a sequence of points into segments of S successive, i-bit points.

3. (Previously presented) The method of claim 2, wherein before the step of dividing, the following step is performed:

determining the value of S.

4. (Previously presented) The method of claim 3, wherein the step of determining the value of S comprises

generating multiple compressions of the sequence, each of the multiple compressions at a different value of S.

5. (Previously presented) The method of claim 3, wherein the step of determining the value of S comprises

generating a compression of the sequence for each value of S from a minimum to a maximum.

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6. (Previously presented) The method of claim 3, wherein the step of determining the value of S comprises

generating a compression of the sequence for each value of S from a minimum of two (2) to a maximum equal to the number of points in the sequence.

7. (Previously presented) The method of claim 3, wherein the step of determining the value of S comprises

generating multiple compressions of the sequence, each of the multiple compressions at a different value of S; and

determining the value of S to be the value of S generating the smallest of the multiple compressions.

8. (Currently amended) The method of claim [[1]] 2, wherein the step of compressing comprises compressing each of the segments of S successive, i-bit points into segments of j-bit points, where  $j \leq i$ .

9. (Original) The method of claim 8, wherein the value of j may vary from segment to segment.

10. (Original) The method of claim 8, wherein, for any given segment, j is the minimum number of bits necessary to represent the data in that given segment.

11. (Original) The method of claim 1, wherein the step of compressing comprises

determining the largest coordinate in any dimension of any point in a segment;

setting j for the segment to the ceiling of the base-2 log of that largest coordinate;

and

truncating from points of the segment most significant bits exceeding j bits.

12. (Previously presented) The method of claim 1, wherein the sequence of points is an electronic signature.

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13. (Original) The method of claim 1, wherein the step of compressing comprises  
compressing each of the segments without losing any of the data in any of the  
segments.
14. (Original) The method of claim 1, wherein the step of compressing comprises  
compressing each of the segments, losing data as directed by an invoking user.
15. (Original) The method of claim 1, wherein before the step of dividing the following step is  
performed:  
converting DrawTo data to relative-movement data.
16. (Original) A method for compressing an electronic signature, the method comprising:  
dividing an electronic signature comprising a sequence of i-bit points into  
segments of successive points numbering S;  
compressing each of the segments into segments of j-bit points without losing any  
of the data in the signature by  
determining the largest coordinate in any dimension of any point in a  
segment;  
setting j for the segment to the ceiling of the base-2 log of that largest  
coordinate; and  
truncating from points of the segment most significant bits exceeding j  
bits.
17. (Original) The method of claim 16, wherein before the step of dividing, the following steps  
are performed:  
converting DrawTo data to relative-movement data;  
generating multiple compressions of the sequence, each of the multiple  
compressions at a different value of S; and  
determining the value of S to be the value of S generating the smallest of the

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multiple compressions.

18. (Currently amended) A ~~data-store~~ computer readable medium wherein is located a computer program for compressing ~~[[the]]~~ a representation of a sequence of points in a space by:

dividing ~~[[a]]~~ the sequence of points into segments of successive points;

determining a compression size for each of the segments, wherein the compression size varies based on a number of bits needed to represent relative distances between the points of each segment;

compressing each of the segments into the compression size for each segment;

and

combining the compressed segments into a data stream.

19. (Currently amended) A ~~data-store~~ computer readable medium wherein is located a computer program for compressing an electronic signature by:

dividing an electronic signature comprising a sequence of i-bit points into segments of successive points numbering S;

compressing each of the segments into segments of j-bit points without losing any of the data in the signature by

determining the largest coordinate in any dimension of any point in a segment;

setting j for the segment to the ceiling of the base-2 log of that largest coordinate; and

truncating from points of the segment most significant bits exceeding j bits.

20. (Currently amended) The ~~data-store~~ computer readable medium of claim 19, wherein the computer program compresses an electronic signature by, before the step of dividing:

converting DrawTo data to relative-movement data;

generating multiple compressions of the sequence, each of the multiple.

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compressions at a different value of S; and

determining the value of S to be the value of S generating the smallest of the multiple compressions.

21. (Currently amended) A compressor for compressing ~~[[the]]~~ a representation of a sequence of points in a space, comprising:

a ~~data store~~ computer readable medium wherein is located a computer program for compressing the representation of the sequence of points in the space by:

dividing the sequence of points into segments of successive points;

determining a compression size for each of the segments, wherein the compression size varies based on a number of bits needed to represent relative distances between the points of each segment;

compressing each of the segments into the compression size for each segment; and

combining the compressed segments into a data stream.

a CPU for executing the computer program in the data store; and

a link, communicatively coupling the data store and the CPU.

22. (Currently amended) A compressor for compressing an electronic signature, comprising:

a ~~data store~~ computer readable medium wherein is located a computer program for compressing an electronic signature by:

dividing an electronic signature comprising a sequence of i-bit points into segments of successive points numbering S;

compressing each of the segments into segments of j-bit points without losing any of the data in the signature by

determining the largest coordinate in any dimension of any point in a segment;

setting j for the segment to the ceiling of the base-2 log of that largest coordinate; and

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truncating from points of the segment most significant bits

exceeding  $j$  bits;

a CPU for executing the computer program in the data store; and

a link, communicatively coupling the data store and the CPU.